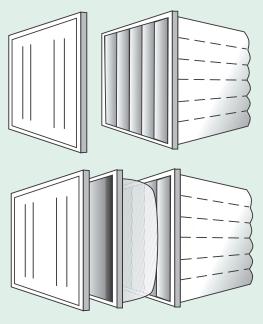


2 and 3 Stage Compliant System



Flanders-Precisionaire offers several choices for NESHAP filtration systems. These systems comply with EPA (Environmental Protection Agency) Test Method 319 as it applies to the National Emissions Standards for Hazardous Air Pollutants (NESHAP). Reference 63 Fed. Reg. 59 (March 27, 1998) and 40 C.F.R. 9, 63.

The EPA Test Method 319 is a testing protocol in which potassium chloride and oleic acid are substituted for chromate paint. These chemical substances attempt to simulate dry and wet overspray characteristics of the chromate paint. This testing protocol verifies that an air filtration system has met minimum efficiency requirements, under laboratory conditions, utilizing potassium chloride and oleic acid.

If a spraybooth existed before 1999, its filtration system must comply with the two stage standards, and if it was built after 1999, it must comply with the three stage standards. Tables 1 and 2 show the required compliance efficiency levels by micron size. Recent legislation has shown that two or three stages are not necessary as long as the final stage has been certified to comply with the minimum efficiency levels outlined in the table above..

Two-Stage System Existing Before 1999 Minimum NESHAP efficiency ratings by particle size				
Oleic Acid (Liquid) Efficiency Particle Size		Postassium Chloride (Dry) Efficiency Particle Size		
>90% >50% >10%	>5.7μm >4.1μm >2.2 μm	>90% >50% >10%	>8.1μm >5.0μm >2.6 μm	

Two-Stage System Existing Before 1999 Minimum NESHAP efficiency ratings by particle size					
Oleic <i>E</i>	Acid (Liquid)	Postassium	sium Chloride (Dry)		
Efficiency	Particle Size	Efficiency	Particle Size		
>95%	>2.00μm	>95%	>2.50 μm		
>80%	>1.00μm	>85%	>1.10 μm		
>65%	>0.42 μm	>75%	>0.70 μm		

Method 319: Determination of Filtration Efficiency for Paint Overspray Arrestors

Quote: "For a paint arrestor system or subsystem which has been tested by this method, adding additional filtration devices to the system or subsystem shall be assumed to result in an efficiency of at least that of the original system without the requirement for additional testing. (For example, if the final stage of a three-stage paint arrestor system has been tested by itself, then the addition of the other two stages shall be assumed to maintain, as a minimum, the filtration efficiency provided by the final stage alone."

FLANDERS 319 COMPLIANT SYSTEM

Flanders Precisionaire's final stage options have been tested and comply with NESHAP regulations. This allows a large range of interchangeable products for the earlier stages

2-Stage System
Varies 325T 2-Pocket cube
2-Stage System
Varies
Varian
Varies
319A 95% Bags



2 and 3 Stage Compliant System

	All products l	age Systen isted are locate rs Precisiona	d within this ca	•	
Stage 1 Options	PA100 PA600 ST55 Panel				
Stage 2 Cube 2325T Cube Filter (2-Pocket 325T Series Cube) Mandatory					

3-Stage System Options All products listed are located within this catalog. Flanders Precisionaire Products					
Stage 1 Media Pad Options	FP3 PA 200 PS 125	332 PA 300	331Y PA 400	330G PA500	PA100 PA600
Stage 2 Options	225T Panel 225T Cubes	325T Panel 325T Cubes	425T Panel 425T Cubes	ST55 Panel Any Stage 1	Option
Stage 3 319A 95% Bags Mandatory					

Recommended Change-Out Procedures

- 1. When the entire system is installed, obtain a static pressure reading for the clean system
- 2. Change out the first stage when the static pressure rises a1.0 w.g. above the initial resistance.
- 3. Repeat this procedure until the static pressure remains at 1.0 w.g. even with a clean first stage installed. At that time, replace the first and second stage. If a three-stage system is used, continue replacing stage 1 and 2 until the third stage maintains a 1.0 w.g. reading with both clean first and second stages installed, then replace the entire system.

Initial pressure for a system can be estimated for an airflow velocity of 150 FPM by totalling the initial pressure drop for each stage. This data is available in the technical performance data in this catalog.

Item No.	Item	Model	Description	Qty/Cs
DP	PA1438	FP319A395S2415	12x24x15 PAK FP319A 95% 3Stage	4
DP	PA1439	FP319A695S0015	20x20x15 PAK FP319A 95% 3Stage	4
DP	PA1440	FP319A695S4415	24x24x15 PAK FP319A 95% 3Stage	4



2 and 3 Stage Compliant System

Item No.	Model	Description	Qty/Case				
FP319A Cube							
PA1431	FP319A202015	20X20X15 CUBE FP319A	2				
PA1433	FP319A202515	20X25X15 CUBE FP319A	2				
PA1434	FP319A242415	24X24X15 CUBE FP319A	2				
	FP319/	A Media Pad					
PA1379	FP319A2020PAD	20x20 FP319A MEDIA PAD	24				
PA1380	FP319A2424PAD	24x24 FP319A MEDIA PAD	24				
	FP31	9A Prelock					
PA1432	FP319A2020PRK	20x20 FP319A RING PANEL	24				
PA1435	FP319A2424PRK	24x24 FP319A RING PANEL	24				
	FP319A	Media Rolls					
PA1369	FP319A2090RL	20"x90' FP319A MEDIA ROLL	1				
PA1370	FP319A2590RL	25"x90' FP319A MEDIA ROLL	1				
PA1371	FP319A3090RL	30"x90' FP319A MEDIA ROLL	1				
PA1372	FP319A3690RL	36"x90' FP319A MEDIA ROLL	1				
PA1373	FP319A4090RL	40"x90' FP319A MEDIA ROLL	1				
PA1374	FP319A4590RL	45"x90' FP319A MEDIA ROLL	1				
PA1375	FP319A5090RL	50"x90' FP319A MEDIA ROLL	1				
PA1376	FP319A5590RL	55"x90' FP319A MEDIA ROLL	1				
PA1377	FP319A6090RL	60"x90' FP319A MEDIA ROLL	1				
PA1378	FP319A9690RL	96"x90' FP319A MEDIA ROLL	1				
'	FP319A 2-Stag	e 65% Precision Pak					
PA1436	FP319A665S0015	20X20X15 PAK FP319A 65% 2STAGE	4				
PA1437	FP319A665S4415	24X24X15 PAK FP319A 65% 2STAGE	4				
'	FP319A 3-Stag	e 95% Precision Pak					
PA1438	FP319A395S2415	12X24X15 PAK FP319A 95% 3STAGE	4				
PA1439	FP319A695S0015	20X20X15 PAK FP319A 95% 3STAGE	4				
PA1440	FP319A695S4415	24X24X15 PAK FP319A 95% 3STAGE	4				
	FP319A Cu	stom Media Pad					
PA1381	FP319AP00099	MEDIA FP319A CUSTOM 000-099	12				
PA1382	FP319AP00199	MEDIA FP319A CUSTOM 100-199	12				
PA1383	FP319AP00299	MEDIA FP319A CUSTOM 200-299	12				
PA1384	FP319AP00399	MEDIA FP319A CUSTOM 300-399	12				
PA1385	FP319AP00499	MEDIA FP319A CUSTOM 400-499	12				
PA1386	FP319AP00599	MEDIA FP319A CUSTOM 500-599	12				



2 and 3 Stage Compliant System

Item No. Model Description Qty/Case

		-	Qcy/ casc
	EDO40A Ola	Madia Dad (acadimaad)	
	FP319A Custom	Media Pad (continued)	
PA1387	FP319AP00699	MEDIA FP319A CUSTOM 600-699	12
PA1388	FP319AP00799	MEDIA FP319A CUSTOM 700-799	12
PA1389	FP319AP00899	MEDIA FP319A CUSTOM 800-899	12
PA1390	FP319AP01199	MEDIA FP319A CUSTOM 900-1199	12
PA1391	FP319AP01399	MEDIA FP319A CUSTOM 1200-1399	12
PA1392	FP319AP01599	MEDIA FP319A CUSTOM 1400-1599	12
PA1393	FP319AP01799	MEDIA FP319A CUSTOM 1600-1799	12
PA1394	FP319AP01999	MEDIA FP319A CUSTOM 1800-1999	12
DA 1005	ED0404D00400	MEDIA EDOLOA OLIOTOM 0000 0400	40
PA1395		MEDIA FP319A CUSTOM 2000-2499	12
PA1396		MEDIA FP319A CUSTOM 2500-2999	12
PA1397		MEDIA FP319A CUSTOM 3000-3499	12
PA1398	FP319AP03999	MEDIA FP319A CUSTOM 3500-3999	12
PA1399	FP319AP04499	MEDIA FP319A CUSTOM 4000-4499	12
PA1400		MEDIA FP319A CUSTOM 4500-4999	12
PA1401	FP319AP05499	MEDIA FP319A CUSTOM 5000-5499	12
PA1402		MEDIA FP319A CUSTOM 5500-5999	12
PA1403	FP319AP06499	MEDIA FP319A CUSTOM 6000-6499	12
PA1404	FP319AP06999	MEDIA FP319A CUSTOM 6599-6999	12
PA1405	FP319AP07499	MEDIA FP319A CUSTOM 7000-7499	12
PA1406	FP319AP07999	MEDIA FP319A CUSTOM 7500-7999	12
PA1407	FP319AP08499	MEDIA FP319A CUSTOM 8000-8499	12
PA1408	FP319AP08999	MEDIA FP319A CUSTOM 8500-8999	12
PA1409	FP319AP09499	MEDIA FP319A CUSTOM 9000-9499	12
PA1410	FP319AP09999	MEDIA FP319A CUSTOM 9500-9999	12
PA1411	ED210AD10400	MEDIA FP319A CUSTOM 10000-10499	10
PA1411 PA1412	FP319AP10499	MEDIA FP319A CUSTOM 10000-10499 MEDIA FP319A CUSTOM 10500-10999	
PA1412 PA1413		MEDIA FP319A CUSTOM 10500-10999 MEDIA FP319A CUSTOM 11000-11499	
		MEDIA FP319A CUSTOM 11000-11499 MEDIA FP319A CUSTOM 11500-11999	
PA1414	FF319AF11999	MEDIA FESTRA COSTOM 11900-11999	12
PA1415	FP319AP12499	MEDIA FP319A CUSTOM 12000-12499	12
PA1416		MEDIA FP319A CUSTOM 12500-12999	
PA1417	FP319AP13499	MEDIA FP319A CUSTOM 13000-13499	
PA1418	FP319AP13999	MEDIA FP319A CUSTOM 13500-13999	12



2 and 3 Stage Compliant System

Item No. Model Description Qty/Case

FP319A Custom Media Pad (continued) PA1419 FP319AP14499 MEDIA FP319A CUSTOM 14000-14499 12 PA1420 FP319AP14999 MEDIA FP319A CUSTOM 14500-14999 12 PA1421 FP319AP15499 MEDIA FP319A CUSTOM 15000-15499 12 FP319AP15999 MEDIA FP319A CUSTOM 15500-15999 12 PA1422 MEDIA FP319A CUSTOM 16000-16499 PA1423 FP319AP16499 12 PA1424 MEDIA FP319A CUSTOM 16500-16999 12 FP319AP16999 PA1425 FP319AP17499 MEDIA FP319A CUSTOM 17000-17499 12 PA1426 FP319AP17999 MEDIA FP319A CUSTOM 17500-17999 12 12 PA1427 FP319AP18499 MEDIA FP319A CUSTOM 18000-18499 MEDIA FP319A CUSTOM 18500-18999 12 PA1428 FP319AP18999 PA1429 FP319AP19499 MEDIA FP319A CUSTOM 19000-19499 12 PA1430 FP319AP19999 MEDIA FP319A CUSTOM 19500-19999 12